

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b> <b>Application Number</b> 10/781,204 <b>Filing Date</b> 02/18/2004 <b>First Named Inventor</b> Backes <b>Art Unit</b> 2618 <b>Examiner Name</b> Haroon <b>Attorney Docket Number</b> 160-020	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>					
Sheet	1	of	10		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (If known)	MM-DD-YYYY		
		US-5,212,831	May 1993	Chuang et al.	
		US-5,345,597	Sep. 1994	Strawczynski et al.	
		US-5,345,598	Sep. 1994	Dent, Paul W.	
		US-5,386,589	Jan. 1995	Kanai, Toshihito	
		US-5,493,694	Feb. 1996	Vicsek et al.	
		US-5,524,280	Jun. 1996	Douthitt et al.	
		US-5,551,057	Aug. 1996	Mitra, Debasish	
		US-5,574,968	Nov. 1996	Olds et al.	
		US-5,574,982	Nov. 1996	Almgren et al.	
		US-5,606,727	Feb. 1997	Ueda	
		US-5,633,888	May 1997	Stewart	
		US-5,724,346	Mar. 1998	Kobayashi et al.	
		US-5,740,534	Apr. 1998	Ayers et al.	
		US-5,815,811	Sep. 1998	Pinard et al.	
		US-5,845,212	Dec. 1998	Tanaka	
		US-5,933,420	Aug. 1999	Jaszewski et al.	
		US-5,963,848	Oct. 1999	D'Avello	
		US-5,987,062	Nov. 1999	Engwer et al.	
		US-6,029,074	Feb. 2000	Irvin	
		US-6,111,867	Aug. 2000	Mann	

[illegible]

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant's unique citation designation number (optional). (See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.)

\*First Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the first Office that issued the document, by the two-letter code (WIPO Standard ST.3). Kind of document (e.g., application, publication, or granted patent) as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20590. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. PATENT DOCUMENTSFOREIGN PATENT DOCUMENTS

Examiner Signature	/Lana Le/	Date Considered	09/29/2011
--------------------	-----------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

Applicant's unique catchword designation (optional). See PAKES Codes of USPTO Patent Documents at [www.uspto.gov/wipo-90.htm](http://www.uspto.gov/wipo-90.htm).  
 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language translation is attached.

document under WIPO Standard S1. 16 if possible. \*Applicant is to place a check mark here if English language translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.







Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b> <b>Application Number</b> 10/781,204 <b>Filing Date</b> 02/18/2004 <b>First Named Inventor</b> Backes <b>Art Unit</b> 2618 <b>Examiner Name</b> Haroon	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>					
Sheet	6	of	10	<b>Attorney Docket Number</b> 160-020	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code* (If known)			
		US-2002/0191561	Dec. 2002	Chen et al.	
		US-2002/0193133	Dec. 2002	Shibutani	
		US-2003/0002456	Jan. 2002	Soomro et al.	
		US-2003/0012174	Jan. 2003	Bender et al.	
		US-2003/0022686	Jan. 2003	Soomro et al.	
		US-2003/0022692	Jan. 2003	Ueno, Tsukasa	
		US-2003/0035442	Feb. 2003	Eng	
		US-2003/0036374	Feb. 2003	English et al.	
		US-2003/0040319	Feb. 2003	Hansen et al.	
		US-2003/0050066	Mar. 2003	Tobe et al.	
		US-2003/0076852	Apr. 2003	Fukui	
		US-2003/0083095	May 2003	Liang, Jie	
		US-2003/0086437	May 2003	Benveniste	
		US-2003/0087646	May 2003	Funato et al.	
		US-2003/0100328	May 2003	Klein et al.	
		US-2003/0134642	Jul. 2003	Kostic et al.	
		US-2003/0174667	Sep. 2003	Krishnamurthi et al.	
		US-2003/0185233	Oct. 2003	Ji et al.	
		US-2003/0207699	Nov. 2003	Shpak	
		US-2003/0231655	Dec. 2003	Kellon et al.	

[illegible]

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language translation is attached.

document under WFO Standard S1, if it is possible. Applicant is to place a check mark here if English language translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for

Patents, Washington, DC 20231.



Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b> <b>Application Number</b> 10/781,204 <b>Filing Date</b> 02/18/2004 <b>First Named Inventor</b> Backes <b>Art Unit</b> 2618 <b>Examiner Name</b> Haroon	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>					
Sheet	8	of	10	<b>Attorney Docket Number</b> 160-020	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code* (If known)	MM-DD-YYYY		
		US-2004/0132458	Jul. 2004	Bing et al.	
		US-2004/0137915	Jul. 2004	Dienert et al.	
		US-2004/0146021	Jul. 2004	Fors et al.	
		US-2004/0151137	Aug. 2004	McFarland et al.	
		US-2004/0157613	Aug. 2004	Steer et al.	
		US-2004/0160908	Aug. 2004	Perلمان	
		US-2004/0162084	Aug. 2004	Wang	
		US-2004/0166849	Aug. 2004	Hawe	
		US-2004/0166867	Aug. 2004	Hawe	
		US-2004/0192279	Sep. 2004	Backes et al.	
		US-2004/0202141	Oct. 2004	Siniavaara et al.	
		US-2004/0203783	Oct. 2004	Wu et al.	
		US-2004/0203828	Oct. 2004	Mirchandani et al.	
		US-2004/0208151	Oct. 2004	Haverinen et al.	
		US-2004/0214590	Oct. 2004	Al-Housami et al.	
		US-2005/0003827	Jan. 2005	Whelan, Robert J.	
		US-2005/0013275	Jan. 2005	Black et al.	
		US-2005/0026610	Feb. 2005	Backes et al.	
		US-2005/0032506	Feb. 2005	Walker, Jesse R.	
		US-2005/0047354	Mar. 2005	Zeira et al.	

[illegible]

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
Applicant's unique citation designation number (optional). \*See Kipler Codes of USPTO Patent Documents at [www.uspto.gov/mpep/901/04](http://www.uspto.gov/mpep/901/04)

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language translation is attached.

document under WFO Standard S1, if possible. Applicant is to place a check mark here if English language translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for

Patents, Washington, DC 20231.





PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Application Number</b>	10/781,204
		<b>Filing Date</b>	02/18/2004
		<b>First Named Inventor</b>	Backes
		<b>Group Art Unit</b>	2618
		<b>Examiner Name</b>	Haroon
<b>Sheet</b>	10	<b>of</b>	10
		<b>Attorney Docket Number</b>	160-020

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		IEEE, Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications, Standard 802.11, 1999 edition, Reference number ISO/IEC 8802-11:1999(E), 528 Pages.	
		MICHAEL BARR, Toward a Smaller Java, Embedded.com, June 14, 2002, Pages 1-9.	
		Moustafa Youssef, "Handling Samples Correlation in the Horus System", IEEE INFOCOM 2004	
		Kin K. Leung "Integrated Link Adaptation and Power Control for Wireless IP Networks", AT&T Labs-research, January 19, 2000.	
		Ana Zapater et al., "Development and implementation of a Bluetooth Networking Infrastructure for the a Notebook - University Scenario", Institute of Communications Engineering, University of Hannover, May 13, 2003	
		Walter Klotz, "Graph Coloring Algorithms", 1999	
		Brent N. Chun et. Al., "Market-based Proportional resource Sharing for Flusters", University of California at Berkeley computer Science Division, September 1999.	
		The Four Color Theorem, Web page, author(s) unknown, updated November 13, 1995.	
		IEEE Std 802.11h-2003, IEEE Standard for Information technology Telecommunications and Information exchange between systems Local and metropolitan area networks Specific requirements, October 14, 2003, 59 pages.	

Examiner Signature	/Lana Le/	Date Considered	09/29/2011
--------------------	-----------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

†Applicant's unique citation designation number (optional). ‡Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231